

Datasheet

RX-C

Self-regulating cable

General Information



The Danfoss RX-C self-regulating heating cable provides a continuous drain path for melting ice and snow to leave a roof through the gutters and into the down spouts. The power output of the conductive core material increases or decreases in response to ambient temperature changes and occurs at every point along the length of the cable such that power output adjusts to the varying conditions along the length of the pipe. The self-regulating effect means the cable can be overlapped without creating hot spots or causing a burn out.

Maximum energy efficiency is ensured by producing heat only when and where it is needed. The Danfoss RX-C can be cut to length at the job site, simplifying installation and

reducing waste. Two jackets - an inner jacket bonded to the core and a thermoplastic elastomer insulation jacket provides an excellent dielectric strength and in combination with the over jacket provides excellent moisture resistance and protection from impact and abrasion damage.

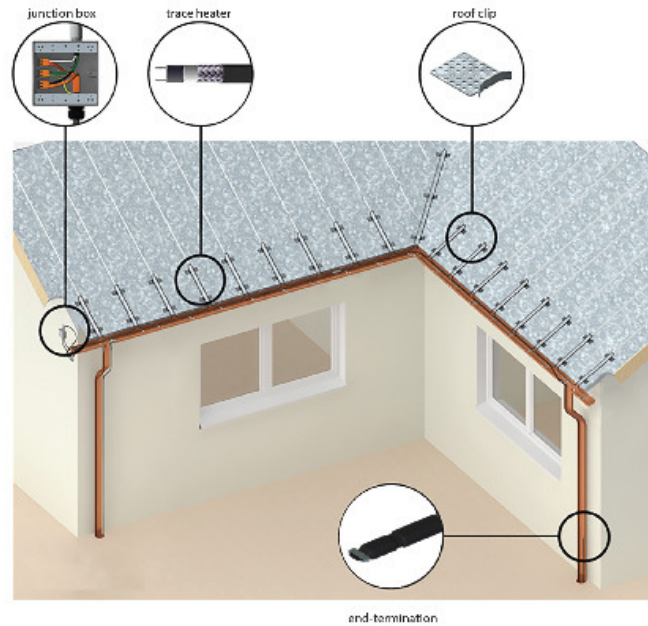
- 100% aluminum foil screen
- Tough UV-rated cable will withstand the harshest conditions
- Durable high quality materials provide excellent moisture, corrosion and impact protection
- Ten year limited warranty

Technical Data

Type:	Self-regulating
Voltage:	120V, 240V
Nominal Power Output:	5W/ft. @ 50°F (10°C 16.4W/m)
Output in Ice or Snow:	12W/ft. @ 32°F (0°C 40W/m)
Heating Element Size:	16AWG (1.25 sq. mm), tinned copper bus wire; see Table for length
Bending Radius:	Minimum 1 inch (25 mm) on inside of tape
Wire Insulation:	TPE
Outer Insulation:	TPE Jacket (UV Stabilized Weatherproof Jacket)
Max. Temperature:	150°F (65°C) Powered, 185°F (85°C) Un-powered
Min. Use Temperature:	-22°F (-30°C)
Dimensions:	0.45" x 0.216" (11.5 x 5.5 mm)

Typical Application

The following figure shows a sample trace heating system including typical components:



Circuit Breaker Selection

Maximum Installation Length vs. Circuit Breaker Size

Cable Type	Start-up Temp.	Circuit Breaker Size (ft.)		
		15A	20A	30A
120V	32°F	98	131	131
240V		213	262	262

A ground fault protection device is required by the NEC, to minimize the danger of fire if the heating cable is damaged or improperly installed.

Ordering Information

Part No.	Length (ft.)	Output at 50°F	Voltage
088L1422	250	5W/ft	120
088L1472	1000	5W/ft	120
088L1432	250	5W/ft	240
088L1473	1000	5W/ft	240

Controls

Part No.	Description
088L3045	DS-8C Controller with Remote Snow Sensor
088L3422	Weatherproof Thermostat with Water-tight Enclosure

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Accessories

Part No.	Description
088L0024	RX-C Roof Clips, Type A (25/bag)
088L3001	RX-C Roof Clips (50/bag)
088L3002	Down spout edge protection plate (1/bag)
088L3003	RX-C Roof Clips, Type B (20/bag)
088L3038	CDP-2 Remote Control & Display Panel for DS-8C
088L0006	Power connection kit, cable to power lead, includes one end seal
088L0008	Splice/Tee Kit, includes one end seal
088L1457	End Seal Kit, includes 5 end seals
088L0023	Power connection kit, cable to box, includes one end seal
088L3000	RX-C Roof Clip Adhesive (10.3 fl. oz. tube)

Warranty

Ten year limited warranty against defects in material, design, and workmanship.

Technical Services

For technical questions, please contact Danfoss **1-888-DANFOSS (326-3677)**. More information on Danfoss Electric Heating products is available at www.LX.Danfoss.com.